

Sheet 1 of 9

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

MICRU:47716

09/139,258

INFORMATION DISCLOSURE CITATION  
(Use Several Sheets If Necessary)

APPLICANT

DANIEL R. KURZ, ET AL

FILING DATE

AUGUST 25, 1998

GROUP

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## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE              | NAME              | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPLICABLE |
|---------------------|-----------------|-------------------|-------------------|-------|--------------|------------------------------|
| W2                  | 3,452,742       | JULY 1, 1969      | MULLER            |       |              |                              |
|                     | 4,820,289       | APRIL 11, 1989    | COURY ET AL.      |       |              |                              |
|                     | 4,838,803       | JUNE 13, 1989     | KONDO             |       |              |                              |
|                     | 5,139,243       | AUGUST 18, 1992   | BALSELLS          |       |              |                              |
|                     | 5,256,146       | OCTOBER 26, 1993  | ENSMINGER ET AL.  |       |              |                              |
|                     | 5,304,142       | APRIL 19, 1994    | LIEBL ET AL.      |       |              |                              |
|                     | 5,334,210       | AUGUST 2, 1994    | GIAN TURCO        |       |              |                              |
|                     | 5,527,338       | JUNE 18, 1996     | PURDY             |       |              |                              |
|                     | 5,540,680       | JULY 30, 1996     | GUGLIELMI ET AL.  |       |              |                              |
|                     | 5,601,600       | FEBRUARY 11, 1997 | TON               |       |              |                              |
|                     | 5,690,667       | NOVEMBER 25, 1997 | GIA               |       |              |                              |
|                     | 5,690,671       | NOVEMBER 25, 1997 | MCGURK ET AL.     |       |              |                              |
|                     | 5,693,067       | DECEMBER 2, 1997  | PURDY             |       |              |                              |
|                     | 5,718,711       | FEBRUARY 17, 1998 | BERENSTEIN ET AL. |       |              |                              |
|                     | 5,725,534       | MARCH 10, 1998    | RASMUSSEN         |       |              |                              |
|                     | 5,743,905       | APRIL 28, 1998    | EDER ET AL.       |       |              |                              |
|                     | 5,746,769       | MAY 5, 1998       | TON ET AL.        |       |              |                              |

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|                 |             |          |       |              | YES         | NO |
| W2              | WO 94/10936 | 26.05.94 | PCT   |              |             |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE                  |  | ATTY. DOCKET NO.<br><b>MICRU:47716</b>     |  | SERIAL NO.<br><b>09/139,258</b> |  |
| <b>INFORMATION DISCLOSURE CITATION</b><br>(Use Several Sheets If Necessary) |  | APPLICANT<br><b>DANIEL R. KURZ, ET AL.</b> |  |                                 |  |
|   |  | FILING DATE<br><b>AUGUST 25, 1998</b>      |  | GROUP<br><b>3731</b>            |  |

  

| U.S. PATENT DOCUMENTS  |                 |                   |                  |       |              |                              |
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| EXAMINER<br><i>INT</i> | DOCUMENT NUMBER | DATE              | NAME             | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPLICABLE |
|                        | 3,868,956       | MARCH 4, 1975     | ALFIDI ET AL.    |       |              |                              |
|                        | 4,494,531       | JANUARY 22, 1985  | GIANTURCO        |       |              |                              |
|                        | 4,512,338       | APRIL 23, 1985    | BALKO ET AL.     |       |              |                              |
|                        | 4,748,986       | JUNE 7, 1988      | MORRISON ET AL.  |       |              |                              |
|                        | 4,994,069       | FEBRUARY 19, 1991 | RITCHART ET AL.  |       |              |                              |
|                        | 5,026,377       | JUNE 25, 1991     | BURTON ET AL.    |       |              |                              |
|                        | 5,108,407       | APRIL 28, 1992    | GEREMIA ET AL.   |       |              |                              |
|                        | 5,122,136       | JUNE 16, 1992     | GUGLIELMI ET AL. |       |              |                              |
|                        | 5,217,484       | JUNE 8, 1993      | MARKS            |       |              |                              |
|                        | 5,228,453       | JULY 20, 1993     | SEPETKA          |       |              |                              |
|                        | 5,250,071       | OCTOBER 5, 1993   | PALERMO          |       |              |                              |

  

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| DOCUMENT NUMBER          | DATE          | COUNTRY        | CLASS | SUB<br>CLASS | TRANSLATION |    |
|                          |               |                |       |              | YES         | NO |
| DE 4102550 A1            | 08/08/1991    | GERMANY        |       |              |             |    |
| UK 2 066 839 A           | 15 JULY 1981  | UNITED KINGDOM |       |              |             |    |
| EP 0 183372 A1           | 04.06.86      | EUROPE         |       |              |             |    |
| EP 0 382014 A1           | 16.08.90      | EUROPE         |       |              |             |    |
| 592.182                  | 28 JULY, 1925 | FRANCE         |       |              |             |    |

  

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| REFERENCES   | CHRISTOS A. ATHANASOULIS, M.D. THE NEW ENGLAND JOURNAL OF MEDICINE,<br>MAY 15, 1980 "THERAPEUTIC APPLICATIONS OF ANGIOGRAPHY" PAGES 1117 - 1125 (1 OF 2)                                       |
|  | CHRISTOS A. ATHANASOULIS, M.D. THE NEW ENGLAND JOURNAL OF MEDICINE,<br>MAY 22, 1980 "THERAPEUTIC APPLICATIONS OF ANGIOGRAPHY" PAGES 1174 - 1179 (2 OF 2)                                       |
|  | ALEX BERENSTEIN, M.D. AND IRVIN I. KRICHEFF, M.D. "CATHETER AND MATERIAL<br>SELECTION FOR TRANSARTERIAL EMBOLIZATION: TECHNICAL CONSIDERATIONS"<br>RADIOLOGY, SEPTEMBER 1979; PAGES 631 - 639. |
|  | O.A. BATTISTA, ET AL. JOURNAL OF APPLIED POLYMER SCIENCE 1967 "COLLOIDAL<br>MACROMOLECULAR PHENOMENA. PART II. NOVEL MICROCRYSTALS OF POLYMERS" PAGES<br>481 - 498.                            |

  

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|  |  | APPLICANT<br><b>DANIEL R. KURZ, ET AL.</b> |  |                                 |  |
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| U.S. PATENT DOCUMENTS                                       |                 |                    |                   |        |           |                           |
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| EXAMINER INITIAL  | DOCUMENT NUMBER | DATE               | NAME              | CL ASS | SUB CLASS | FILING DATE IF APPLICABLE |
| <div style="font-size: 2em; font-family: cursive;">WZ</div> | 5,336,205       | AUGUST 9, 1994     | ZENZEN ET AL.     |        |           |                           |
|   | 5,350,397       | SEPTEMBER 27, 1994 | PALERMO ET AL.    |        |           |                           |
|   | 5,354,295       | OCTOBER 11, 1994   | GUGLIELMI ET AL   |        |           |                           |
|   | 5,312,415       | MAY 17, 1994       | PALERMO           |        |           |                           |
|   | 5,639,277       | JUNE 17, 1997      | MARIANT ET AL.    |        |           |                           |
|   | 5,649,949       | JULY 22, 1997      | WALLACE ET AL.    |        |           |                           |
|   | 5,222,969       | JUNE 29, 1993      | GILLIS            |        |           |                           |
|   | 5,607,445       | MARCH 4, 1997      | SUMMERS           |        |           |                           |
|   | 5,667,522       | SEPTEMBER 16, 1997 | FLOMENBLIT ET AL. |        |           |                           |
|   | 5,514,176       | MAY 7, 1996        | BOSLEY, JR.       |        |           |                           |
|   | 5,582,619       | DECEMBER 10, 1996  | KEN               |        |           |                           |

  

| FOREIGN PATENT DOCUMENTS |      |         |        |           |             |    |
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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)        |  |
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| REFERENCES<br><br><div style="font-size: 2em; font-family: cursive;">WZ</div> | SADEK K. HILAL, M.D. ET AL. JOURNAL OF NEUROLOGICAL SURGERY "THERAPEUTIC PERCUTANEOUS EMBOLIZATION FOR EXTRA-AXIAL VASCULAR LESIONS OF THE HEAD, NECK AND SPINE" SEPTEMBER, 1975; PAGES 275 - 287. |
|   | STEPHEN L. KAUFMAN, M.D. ET AL. INVESTIGATIVE RADIOLOGY, MAY-JUNE 1978 "TRANSCATHETER EMBOLIZATION WITH MICROFIBRILLAR COLLAGEN IN SWINE"; PAGES 200-204   |
|   | ASHOK J. KUMAR, ET AL., JOURNAL OF NEURORADIOLOGY (1982) "PREOPERATIVE EMBOLIZATION OF HYPERVASCULAR HEAD AND NECK NEOPLASMS USING MICROFIBRILLAR COLLAGEN", PAGES 163 -168.                       |
|   | RICHARD E. LATCHAW, M.D. ET AL., RADIOLOGY (1979) "POLYVINYL FOAM EMBOLIZATION OF VASCULAR AND NEOPLASTIC LESIONS OF THE HEAD, NECK AND SPINE" PAGES 669 - 679.                                    |
|   | STEWART R. REUTER, M.D. ET AL. AMERICAN JOURNAL OF RADIOLOGY, SEPTEMBER 1975 "SELECTIVE ARTERIAL EMBOLIZATION FOR CONTROL OF MASSIVE UPPER GASTROINTESTINAL BLEEDING" PAGES 119 - 126.             |

  

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| EXAMINER<br><div style="font-size: 1.5em; font-family: cursive;">Vilhi Tunk</div> | DATE CONSIDERED<br><div style="font-size: 1.5em; font-family: cursive;">7/24/02</div> |
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|   | APPLICANT<br>DANIEL R. KURZ, ET AL. |            |
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|---------------------|-----------------|-------------------|----------------------|-----------|------------------|------------------------------|
| WZ                  | 5,562,641       | OCTOBER 8, 1996   | FLOMENBLIT ET AL.    |           |                  |                              |
|                     | 5,549,624       | AUGUST 27, 1996   | MIRIGIAN ET AL.      |           |                  |                              |
|                     | 4,994,069       | FEBRUARY 19, 1991 | RITCHART ET AL.      |           |                  |                              |
|                     | 5,226,911       | JULY 13, 1993     | CHEE ET AL.          |           |                  |                              |
|                     | 5,690,666       | NOVEMBER 25, 1997 | BERENSTEIN ET AL.    |           |                  |                              |
|                     | 5,522,836       | JUNE 4, 1996      | PALERMO              |           |                  |                              |
|                     | 5,569,245       | OCTOBER 29, 1996  | GUGLIELMI ET AL.     |           |                  |                              |
|                     | 4,768,507       | SEPTEMBER 6, 1988 | FISCHELL ET AL.      |           |                  |                              |
|                     | 4,795,458       | JANUARY 3, 1989   | REGAN                |           |                  |                              |
|                     | 4,800,882       | JANUARY 31, 1989  | GIANTURCO            |           |                  |                              |
|                     | 4,813,925       | MARCH 21, 1989    | ANDERSON, JR. ET AL. |           |                  |                              |

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| ARTICLES | GLENN H. ROBERSON, ET AL., AMERICAN JOURNAL OF RADIOLOGY, OCTOBER 1979 "THERAPEUTIC EMBOLIZATION OF JUVENILE ANGIOFIBROMA" PAGES 657 -663                            |
|          | SIDNEY WALLACE, M.D. ET AL., CANCER, OCTOBER 1979 "ARTERIAL OCCLUSION OF PELVIC BONE TUMORS"; PAGES 322-325 & 661-663  |
|          | "MECHANICAL DEVICES FOR ARTERIAL OCCLUSION" BY C. GIANTURCO, M.D., ET AL., JULY 1975 PAGES 428 - 435   |
|          | "THERAPEUTIC VASCULAR OCCLUSION UTILIZING STEEL COIL TECHNIQUE: CLINICAL APPLICATIONS" BY SIDNEY WALLACE, ET AL., AM J. ROENTGENOL (1976); PAGES 381-387             |
|          | "TRANSCATHETER INTRAVASCULAR COIL OCCLUSION OF EXPERIMENTAL ARTERIOVENOUS FISTULAS", BY JAMES H. ANDERSON, ET AL., AM. J. ROENTGENOL, NOVEMBER 1977, PAGES 795 -798. |

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| EXAMINER INITIAL      | DOCUMENT NUMBER | DATE               | NAME             | CL ASS | SUB CLASS | FILING DATE IF APPLICABLE |
| <i>[initials]</i>     | 4,856,516       | AUGUST 15, 1989    | HILLSTEAD        |        |           |                           |
|                       | 4,957,479       | SEPTEMBER 18, 1990 | ROEMER           |        |           |                           |
|                       | 4,990,155       | FEBRUARY 5, 1991   | WILKOFF          |        |           |                           |
|                       | 5,041,084       | AUGUST 20, 1991    | DeVRIES ET AL.   |        |           |                           |
|                       | 5,133,732       | JULY 28, 1992      | WIKTOR           |        |           |                           |
|                       | 5,141,502       | AUGUST 25, 1992    | MACALUSO, JR.    |        |           |                           |
|                       | 5,147,370       | SEPTEMBER 15, 1992 | McNAMARA ET AL.  |        |           |                           |
|                       | 5,160,341       | NOVEMBER 3, 1992   | BRENNEMAN ET AL. |        |           |                           |
|                       | 5,176,625       | JANUARY 5, 1993    | BRISSON          |        |           |                           |
|                       | 5,183,085       | FEBRUARY 2, 1993   | TIMMERMANS       |        |           |                           |
|                       | 5,690,643       | NOVEMBER 25, 1997  | WIJAY            |        |           |                           |

  

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| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) |   |
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| ARTICLES   | <p>" 'MINI' GIANTURCO STAINLESS STEEL COILS FOR TRANSCATHETER VASCULAR OCCLUSION" BY JAMES H. ANDERSON, ET AL., FROM THE DEPARTMENT OF DIAGNOSTIC RADIOLOGY AT THE UNIVERSITY OF TEXAS SYSTEM CANCER CENTER, AUGUST 1978, PAGES 301 - 303.</p> <p>"A NEW IMPROVED COIL FOR TAPERED-TIP CATHETER FOR ARTERIAL OCCLUSION" BY VINCENT P. CHUANG, M.D., ET AL., MAY 1980, PAGES 507 - 509</p> |
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| AMINER <i>Vikki Trinh</i> | DATE CONSIDERED <i>7/24/02</i> |
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| <i>WC</i><br><div style="border-left: 1px solid black; height: 100px; margin-left: 10px;"></div>   | 5,624,461          | APRIL 29, 1997   | MARIANT                                    | <div style="border-left: 1px solid black; height: 100px; margin-left: 10px;"></div> |                                 |                              |
|  | 5,637,113          | JUNE 10, 1997    | TARTAGLIA ET AL.                           |   |                                 |                              |
|  | 5,639,277          | JUNE 17, 1997    | MARIANT ET AL.                             |   |                                 |                              |
|  | 5,643,254          | JULY 1, 1997     | SCHELDRUP ET AL.                           |   |                                 |                              |
|  | 5,676,697          | OCTOBER 14, 1997 | MCDONALD                                   |   |                                 |                              |
|  | 5,234,456          | AUGUST 10, 1993  | SILVESTRINI                                |   |                                 |                              |
|  | 5,304,194          | APRIL 19, 1994   | CHEE ET AL.                                |   |                                 |                              |
|  | 5,342,387          | AUGUST 30, 1994  | SUMMERS                                    |   |                                 |                              |
|  | 5,382,259          | JANUARY 17, 1995 | PHELPS ET AL.                              |   |                                 |                              |
|  | 5,441,516          | AUGUST 15, 1995  | WANG ET AL.                                |   |                                 |                              |
|  | 5,443,478          | AUGUST 22, 1995  | PURDY                                      |   |                                 |                              |
| <b>FOREIGN PATENT DOCUMENTS</b>  |                    |                  |  |   |                                 |                              |
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| EXAMINER INITIAL      | DOCUMENT NUMBER | DATE              | NAME              | CL ASS | SUB CLASS | FILING DATE IF APPLICABLE |
| WZ                    | 1,341,052       | MAY 25, 1920      | F. G. GALE        |        |           |                           |
|                       | 1,667,730       | MAY 1, 1928       | J. BIRCHARD GREEN |        |           |                           |
|                       | 2,078,182       | APRIL 20, 1937    | A.E. MacFARLAND   |        |           |                           |
|                       | 2,549,335       | APRIL 17, 1951    | M. RAHTHUS        |        |           |                           |
|                       | 3,649,224       | MARCH 14, 1972    | ANDERSON ET AL.   |        |           |                           |
|                       | 3,334,629       | AUGUST 8, 1967    | B.D. COHN         |        |           |                           |
|                       | 4,655,771       | APRIL 7, 1987     | WALLSTEN          |        |           |                           |
|                       | 4,718,907       | JANUARY 12, 1988  | KARWOSKI ET AL.   |        |           |                           |
|                       | 4,830,003       | MAY 16, 1989      | WOLFF ET AL.      |        |           |                           |
|                       | 5,071,407       | DECEMBER 10, 1991 | TERMIN ET AL.     |        |           |                           |
|                       | 4,638,803       | JANUARY 27, 1987  | RAND              |        |           |                           |

  

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| U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE                  |  | ATTY. DOCKET NO.<br><b>MICRU:47716</b>     |  | SERIAL NO.<br><b>09/139,258</b> |  |
| <b>INFORMATION DISCLOSURE CITATION</b><br>(Use Several Sheets If Necessary) |  | APPLICANT<br><b>DANIEL R. KURZ, ET AL.</b> |  |                                 |  |
|   |  | FILING DATE<br><b>AUGUST 25, 1998</b>      |  | GROUP<br><b>3731</b>            |  |

  

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| EXAMINER INITIAL      | DOCUMENT NUMBER | DATE               | NAME            | CL ASS | SUB CLASS | FILING DATE IF APPLICABLE |
| <i>WZ</i>             | 4,820,298       | APRIL 11, 1989     | LEVEEN ET AL.   |        |           |                           |
|                       | 4,850,960       | JULY 25, 1989      | GRAYZEL         |        |           |                           |
|                       | 4,954,126       | SEPTEMBER 4, 1990  | WALLSTEN        |        |           |                           |
|                       | 4,957,501       | SEPTEMBER 18, 1990 | LAHILLE ET AL   |        |           |                           |
|                       | 5,064,435       | NOVEMBER 12, 1991  | PORTER          |        |           |                           |
|                       | 5,104,404       | APRIL 14, 1992     | WOLFF           |        |           |                           |
|                       | 5,133,731       | JULY 28, 1992      | BUTLER ET AL.   |        |           |                           |
|                       | 5,147,370       | SEPTEMBER 15, 1992 | McNAMARA ET AL. |        |           |                           |
|                       | 5,151,105       | SEPTEMBER 29, 1992 | KWAN-GETT       |        |           |                           |
|                       | 5,176,661       | JANUARY 5, 1993    | EVARD ET AL.    |        |           |                           |
|                       | 5,186,992       | FEBRUARY 16, 1993  | KITE, III       |        |           |                           |

  

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